



**Powerology**

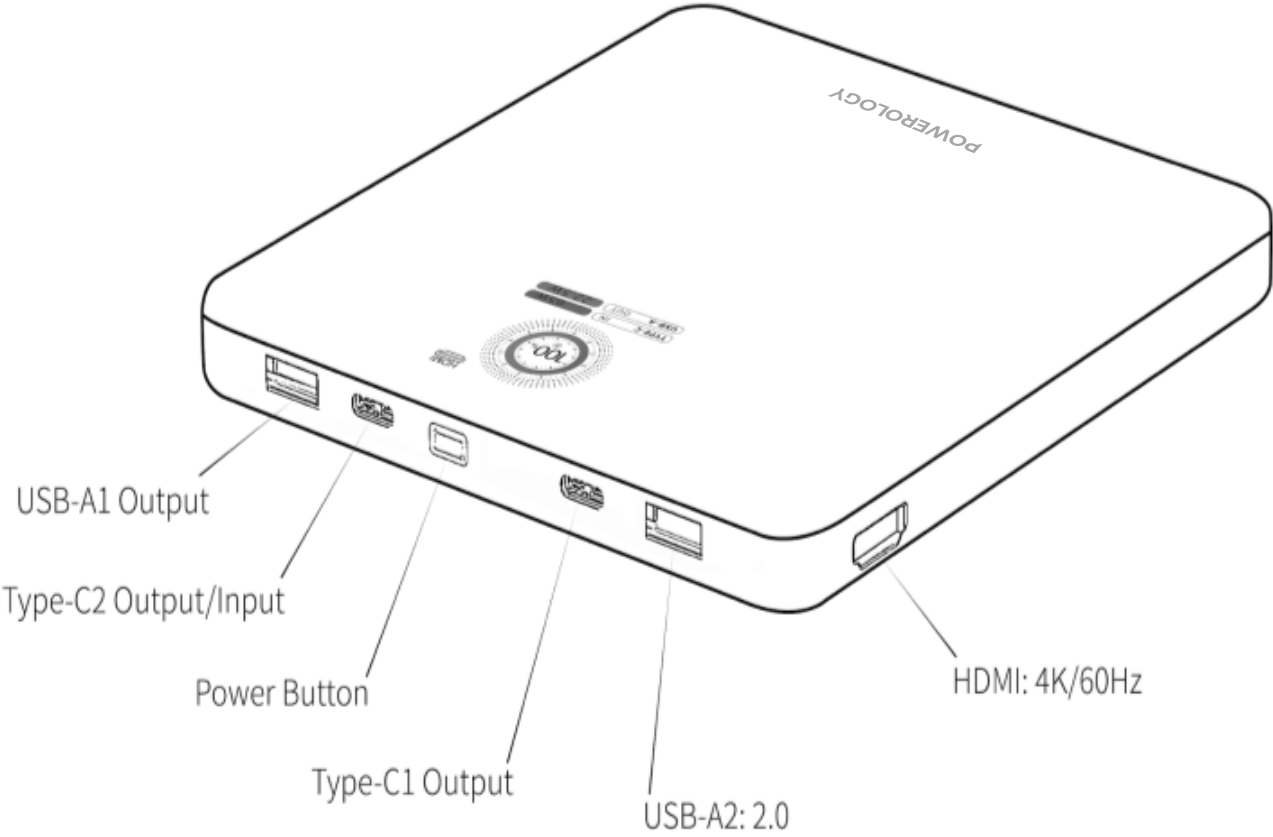
## **VoltStream 20000mAh Power Bank**

SKU: PPBCHA89BK

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# Schematic View



# Specifications

Model	PP089
Battery Capacity	4x 5000mAh (20000mAh Total)
Rated Capacity	12000mAh(5V/3A)
Type-C2 Input	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A
USB-A1 Output	5V/3A, 9V/2A, 10V/2.25A, 12V/1.5A, 22.5W
USB-C1 Output	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3.25A, 65W
USB-C2 Output	5V/3A, 9V/3A,12V/3A,15V/3A, 20V/5A, 100W
USB-C1+ USBC2 Output	35W+65W
USB-A1+ USBC1 Output	22.5W+65W

USB-A1+ USB-C2 Output	5V/3.6A
USB-C1+ (USB-A1+USB-C2) Output	65W+(5V/3.6A)
HDMI Output	4K/60Hz, USB-A2 (2.0 (480Mbps))
Product Size	135 x 18×150mm
Product Weight	493g
Operating Temperature	0°C to 40°C
Storage Temperature	0°C to 40°C

## Product Description

This product is a high-power digital display fast-charging power bank, supporting a maximum output of 100W and a maximum input of 65W. It supports dual-channel Power Delivery, being compatible with PD 3.0, QC 4.0+, QC 3.0, SCP, FCP, PPS, Samsung AFC, and other fast charging protocols. The HDMI Interface 2.0b supports HDCP 1.3/2.3, with a maximum resolution of 2160x4906 at 60Hz, offering stereo audio and enabling screen duplication across displays as well as workspace expansion across monitors. The USB-A 2.0 interface provides a transmission speed of 480Mbps with a maximum output of 5V/3A, while Type-C 1 supports DisplayPort projection. Additionally, the product features a real-time display of battery level, voltage, current, and power output, and is equipped with built-in multi-protection safety circuits, including over-current, over-voltage, over-temperature, and short-circuit protection, ensuring high-speed charging compatibility with most laptops and smartphones.

## **Function Guide**

- 1.** Press the button once to display the current remaining battery level.
- 2.** When using any of the following interfaces (Type-C1, USB-A2, or HDMI), press the button twice consecutively to initiate power output.
- 3.** Press the button to display the output voltage, current, and power information for all active ports.

## **HDMI Function Description**

When using the HDMI extension or USB-A2 function, a Type-C to Type-C data cable (USB 3.2 version) must be connected between the laptop and the Type-C1 port of the power bank. Once connected, double-click the power button to activate the function.

## **Charging Guide**

- 1.** Ensure that the charging voltage of the digital device matches the output voltage of the power bank.
- 2.** Use the original charging cable of the digital device. Connect one end to the device and the other end to the output port of the power bank.
- 3.** Upon a successful connection, the display screen will show the real-time battery status.

## **Battery Usage Precautions**

- 1.** This product contains no user-serviceable components, and the rechargeable battery pack is not replaceable.
- 2.** Do not incinerate or expose the battery pack to any combustion sources. Avoid mechanically squeezing or cutting the battery pack, as these actions may cause an explosion.
- 3.** Exposing the battery pack to extreme temperatures may lead to thermal runaway, which could cause an explosion, flammable liquid leakage, or the emission of combustible gases.
- 4.** Subjecting the battery pack to extreme low-pressure conditions may result in an explosion, flammable liquid leakage, or the emission of combustible gases.

## **Safety Warning Notes**

- 1.** Improper use of this product may lead to battery failure, severe overheating, or even fire. To avoid personal injury or property damage, please adhere to the following guidelines when using this product:
- 2.** This product is not a toy. Keep it out of reach of children, and do not allow children to use or play with it to prevent accidents.
- 3.** Always use a charger that meets local safety standards (such as China's 3C certification standards) to charge this product. This helps prevent electric shock or battery damage.
- 4.** Avoid crushing or striking the product, and prevent severe drops or strong vibrations. If any of these occur, or if liquid penetrates or splashes into the product, it could damage the battery or circuit,

or cause a short circuit. In such cases, stop using the product immediately and dispose of it properly.

**5.** If the product swells, deforms, leaks, or experiences a significant decrease in capacity, discontinue use immediately and dispose of it properly.

**6.** Do not charge or discharge the product while it is placed in a clothing pocket, sealed bag, bed, sofa, or any other location that may impede proper heat dissipation. When charging mobile phones or other devices for extended periods, do not stack this product with those devices to ensure adequate heat dissipation.

**7.** It is strictly prohibited to disassemble, squeeze, puncture, or immerse this product in water or fire (including placing it near heat sources such as stoves or heaters) or expose it to environments with temperatures exceeding 60°C.

**8.** In hot weather, do not leave the product outdoors, in unattended vehicles, or in any place exposed to direct sunlight.

**9.** This product contains a lithium-ion polymer battery. Do not disassemble the product casing, as this could damage the battery or create other hazards.

**10.** This product should not be disposed of as domestic waste. It must be taken to the appropriate collection point for the recycling of electrical and electronic equipment.

## **Disposal**

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

## **Warranty**

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website **[powerology.me/warranty](https://powerology.me/warranty)** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:

**[powerology.me/warranty](https://powerology.me/warranty)**

## **Contact Us**

If you have any questions about this Privacy Policy, please contact us at: **[hey@powerology.me](mailto:hey@powerology.me)**

Website: **[powerology.me](https://powerology.me)**

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